surface science

Contents

Volume 265 (1992) Nos. 1–3

Surface Science Letters

Atomically resolved surface structure of $LaB_6(100)$
J.S. Ozcomert and M. Trenary L227

Adsorption of nitrogen on Grafoil preplated with carbon tetrachloride at 77 K
H. Asada, S. Doi and H. Kawano L233

Temperature programmed desorption study of GaAs(100)-c(4 × 4) and As_4 exposed (2-× 4) surfaces
C. Sasaoka, Y. Kato and A. Usui L239

Local structure of a copper surface chlorinated at a low temperature
B.V. Andryushechkin and K.N. Eltsov L245

Surface Science

Adsorption of N_2 on the Pd(111) surface at 20 K. I. Chemisorption and physisorption in the monolayer
M. Bertolo and K. Jacobi 1

Adsorption of N_2 on the Pd(111) surface at 20 K. II. ARUPS and HREELS of the physisorbed phase
M. Bertolo and K. Jacobi 12

Copper/oxide interface formation: a vibrational and electronic investigation by electron spectroscopies
T. Conard, J. Ghijsen, J.M. Vohs, P.A. Thiry, R. Caudano and R.L. Johnson 31

Low-energy electron loss spectroscopy of Eu, Gd, and Tb. The valence region
J. Kołaczkiewicz and E. Bauer 39

NO on Pt(111): direct inelastic scattering and sticking/desorption
C. Haug, W. Brenig and T. Brunner 56

Structural studies of highly corrugated surfaces with atomic beams: calculation of He-diffraction intensities from realistic interaction potentials with an extented GR-method
E. Kirsten and K.H. Rieder 67

Applications of real-time infrared spectroscopy to electrocatalysis at bimetallic surfaces. I. Electrooxidation of formic acid and methanol on bismuth-modified Pt(111) and Pt(100)
S.-C. Chang, Y. Ho and M.J. Weaver 81

Electrochemical studies of adsorbed CO on Pt(110) in a carbonate solution: structural surface modification
E. Morallón, J.L. Vázquez, R. Duo and A. Aldaz 95

Surface and bulk diffusion of adsorbed nickel on ultrathin thermally grown silicon dioxide
J.T. Mayer, R.F. Lin and E. Garfunkel 102

Site-selective adsorption of Cl atoms on Ni(111) studied by back-reflection X-ray standing-wave method
Y. Takata, H. Sato, S. Yagi, T. Yokoyama, T. Ohta and Y. Kitajima 111

IRAS study of ESD behavior of CO on Ni(111) at 90 K
Z. Xu and J.T. Yates, Jr. 118

Metal particles on the surfaces of heat-treated ceramic thin films
D.W. Susnitzky and C.B. Carter 127

STM imaging of molecules: factors affecting their reliable imaging
Z. Nawaz, T.R.I. Cataldi, J. Knall, R. Somekh and J.B. Pethica 139

Growth of Ge on Si(100) and Si(113) studied by STM
J. Knall and J.B. Pethica 156

The chemisorption of NH_3 on the Si(100) surface
N.W. Moriarty and P.V. Smith 168

A surface spectroscopy study of the oxidation properties of UNi_2 and UNi_5
T. Gouder, C.A. Colmenares, J.R. Naegele, J.C. Spirlet and J. Verbist 175

Consequences of a finite energy resolution for photoelectron diffraction spectra
V. Fritzsche 187

The kinetic Potts model in the description of surface dynamics
M.A. Załuska-Kotur 196

Chemisorption effects on the spatial atomic distribution of bimetallic nanostructures
J.M. Montejano-Carrizales and J.L. Morán-López 209

Factor analysis applied to carbon Auger spectra of tungsten carbide coatings deposited by reactive sputtering
T. Pütz, A. Fuchs and H. Ehrhardt 219

Site occupancy pair correlation functions and structure factors of partially ordered overlayers. I. Formalism
G. Wiatrowski, J.C. Le Bosse, J. Lopez and I. Zasada 229

The condition for step flow in MBE growth on vicinal surfaces
Y. Kajikawa, M. Hata, T. Isu and Y. Katayama 241

Time evolution of a metallic ultra-thin film by surface electro-migration
S. Ohta, A. Natori and H. Yasunaga 252

Diffusion mechanisms on Ni surfaces
C.-L. Liu and J.B. Adams 262

Contents continued on inside cover

Theory of diffusion in periodic systems: the diffusion coefficient
R. Ferrando, R. Spadacini and G.E. Tommei 273

Adsorbate–adsorbate interaction effects in surface diffusion
M.C. Tringides and R. Gomer 283

Dynamics of commensurate ($N \times 2$; $N = 3, 4$) and incommensurate phases of an argon monolayer adsorbed on MgO(100)
C. Ramseyer, P.N.M. Hoang and C. Girardet 293

Reaction of NO to form N_2O and surface oxide on GaAs(100)
C.P. Dehnbostel, A. Ludviksson, C. Huang, H.J. Jänsch and R.M. Martin 305

Surface oxidation of GaAs(100) by adsorption of NO_2
C. Huang, A. Ludviksson and R.M. Martin 314

Announcement 324

Author index 325

Subject index 329

Instructions for authors 337